

**WASHINGTON STATE DEPARTMENT OF HEALTH
OFFICE OF FOOD SAFETY AND SHELLFISH PROGRAMS**

ANNUAL GROWING AREA REVIEW

PREPARED BY: Donald J. Melvin, Environmental Specialist

AREA: Rocky Bay

YEAR ENDING: December 31, 2005

CLASSIFICATION: Approved

ACTIVITIES IN THE GROWING AREA IN 2005:

Rocky Bay was sampled 12 times during 2005 in accordance with the NSSP systematic random sampling criteria. DOH completed a routine evaluation of four miles of shoreline and associated uplands around Rocky Bay. One-hundred twelve developed parcels were evaluated. No direct or indirect impacts were identified.

ANALYTICAL RESULTS OF WATER SAMPLES:

Table #1 summarizes the results of the most recent 30 water samples collected from Rocky Bay. All stations pass the NSSP Approved water quality standard. Station #22 is threatened due to elevated bacteria levels. Individual sample results for station #22 are shown in Table 2.

CHANGE IN ACTUAL POLLUTION SOURCES THAT IMPACT THE GROWING AREA:

We currently have no information indicating that the area has new sources of pollution.

CLASSIFICATION STATUS:

- ☐ Well within the classification standards
- ☐ Meets standards but some concerns
- ☒ Meets standards but threatened with a downgrade in classification
- ☐ Fails to meet classification standards

REMARKS AND RECOMMENDATIONS:

Rocky Bay is on the 303d list for fecal coliform.

TABLE 1

SUMMARY OF MARINE WATER DATA (SRS)

Growing Area: **ROCKY BAY**

Classification: **Approved**

From **07/16/2002** To **12/14/2005**

FECAL COLIFORM ORGANISMS/100 ML

Station Number	Classification	Number of Samples	Range	Geometric Mean	Est. 90th Percentile	Meets Std.
19	Approved	31	1.7 - 33.0	3.3	12.0	Yes
20	Approved	6	1.7 - 7.8	2.6	6.0	*N/A
21	Approved	31	1.7 - 79.0	4.1	16.0	Yes
22	Approved	31	1.7 - 70.0	7.6	32.0	Yes
23	Approved	31	1.7 - 33.0	2.3	6.0	Yes
24	Approved	31	1.7 - 49.0	3.6	11.0	Yes
25	Approved	30	1.7 - 79.0	4.2	13.0	Yes
26	Approved	30	1.7 - 70.0	3.3	12.0	Yes
27	Approved	31	1.7 - 79.0	2.5	8.0	Yes
28	Approved	6	1.7 - 2.0	1.8	2.0	*N/A
29	Approved	33	1.7 - 23.0	2.5	6.0	Yes

All tides information is presented

The standard for approved shellfish growing waters is fecal coliform geometric mean not greater than 14 organisms/100 ml and an estimate of the 90th percentile not greater than 43 organisms/100 ml. The above table shows bacteriological results in relation to program standards.

* N/A - SRS criteria require a minimum of 30 samples from each station. *

† All samples have been verified.

TABLE 2**SUMMARY OF SHELLFISH GROWING AREAS
WATER QUALITY STUDY RESULTS**Growing Area: **ROCKY BAY**Sampling Station Number: **22**Classification: **Approved**

Sample Date	Sample Time	Tide	Fcoli/100ml	Temperature	Salinity
07/16/2002	11:41	Ebb	17	20	28
08/28/2002	10:11	Flood	2	18	26
10/01/2002	15:10	Flood	1.7	15	30
11/21/2002	10:12	Ebb	13	10	17
01/23/2003	11:06	Ebb	33	7	0
03/10/2003	10:09	Ebb	49	8	8
05/08/2003	10:02	Flood	1.8	13	24
09/03/2003	12:53	Flood	1.7	18	30
11/04/2003	11:43	Flood	6.8	9	12
02/11/2004	11:15	Ebb	1.7	6	15
04/07/2004	09:49	Ebb	11	11	9
05/06/2004	09:34	Ebb	23	14	24
06/24/2004	10:14	Flood	33	17	6
07/21/2004	09:17	Ebb	23	21	25
08/18/2004	09:22	Ebb	70	21	20
09/09/2004	14:43	Flood	4.5	18	26
10/21/2004	12:46	Flood	2	14	26
11/01/2004	10:34	Ebb	4.5	11	20
12/01/2004	11:40	Ebb	4.5	8	20
01/19/2005	11:33	Flood	11	6	0
02/02/2005	11:05	Ebb	23	7	24
03/30/2005	09:41	Ebb	9.3	9	2
04/12/2005	09:52	Ebb	2	10	10
05/11/2005	09:30	Ebb	6.8	13	24
06/27/2005	09:51	Flood	23	16	22
07/25/2005	10:43	Ebb	13	17	26
08/23/2005	09:35	Ebb	4.5	18	30
09/21/2005	10:57	Ebb	13	14	28
10/19/2005	11:53	Ebb	11	15	28
11/17/2005	11:25	Ebb	1.7	10	27
12/14/2005	11:01	Ebb	2	7	26

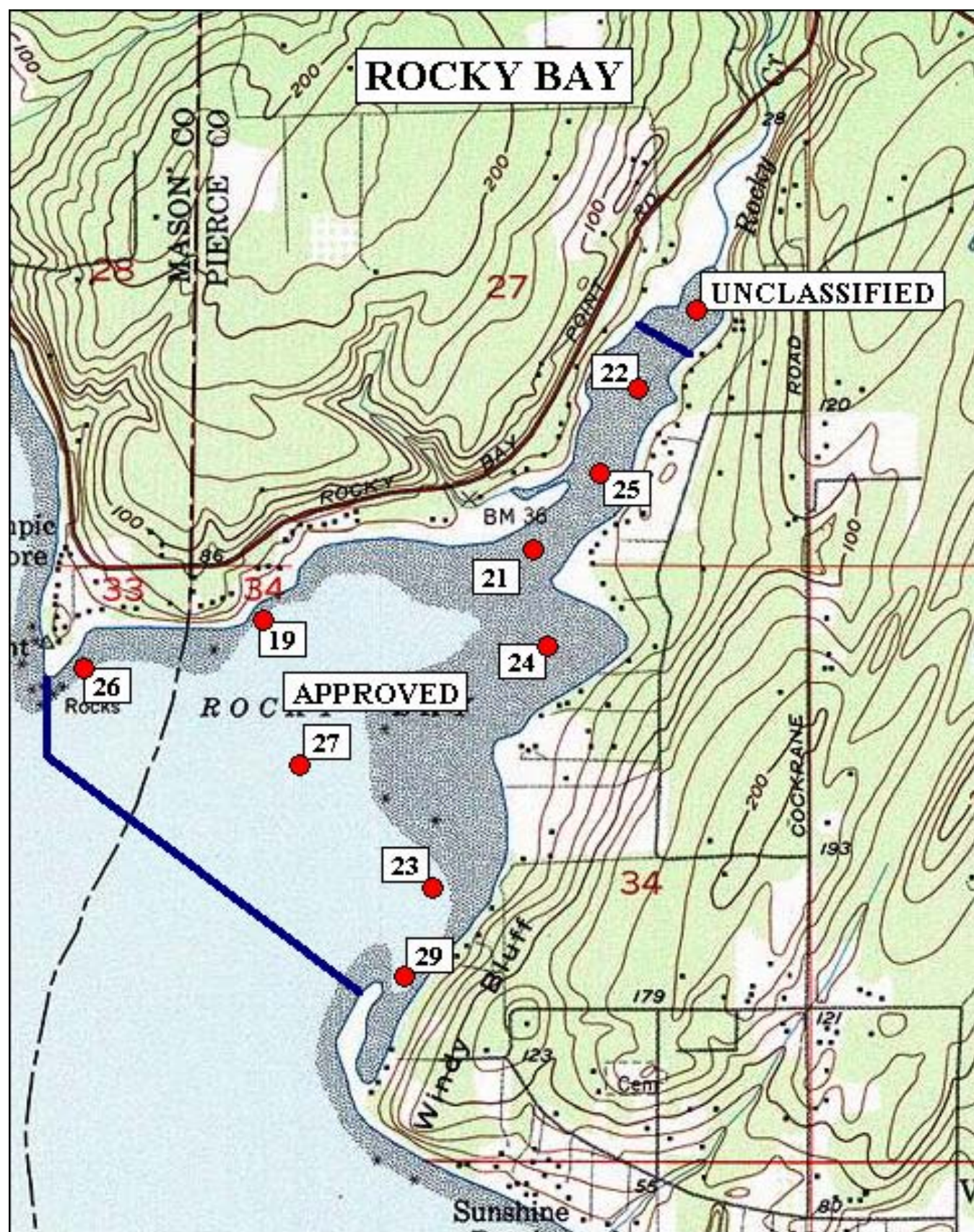
Number of Samples: 31

Geometric Mean: 7.6

Range: 1.7 - 70

Estimated 90th Percentile: 32

† All samples have been verified.



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Most recent five-year trend in fecal coliform pollution.

